

**From:** KarenD Johnson/R3/USEPA/US  
**Sent:** 1/23/2012 2:04:03 PM  
**To:** James Bennett/R3/USEPA/US@EPA  
**CC:**  
**Subject:** Fw: New data, new names in the response to the 104 data from Cabot

Jim- I updated this list for additions to the map. Only enter if it is new or higher than previous values. Should be new for

**Ex. 6 - Personal Privacy**

Thanks!

Karen D. Johnson, Chief

Ground Water & Enforcement Branch

----- Forwarded by KarenD Johnson/R3/USEPA/US on 01/23/2012 01:51 PM -----

**From:** KarenD Johnson/R3/USEPA/US  
**To:** Dawn Ioven/R3/USEPA/US@EPA  
**Cc:** Ann DiDonato/R3/USEPA/US@EPA, Dennis Carney/R3/USEPA/US@EPA, Eric Johnson/R3/USEPA/US@EPA, Jon Capacasa/R3/USEPA/US@EPA, Richard Fetzer/R3/USEPA/US@EPA, Robert Helverson/R3/USEPA/US@EPA, Victoria Binetti/R3/USEPA/US@EPA  
**Date:** 01/13/2012 01:38 PM  
**Subject:** Re: New data, new names in the response to the 104 data from Cabot

Thanks Dawn!- I don't know what the source of the DBP's at the [Ex. 6 - Personal Privacy] well would be either, but organics in the soil and bromides in the drilling fluids could be interacting, I just don't know where the chlorine would be coming from ....I just wanted to make sure if the [Ex. 6 - Personal Privacy] house had to be added that Denis know sooner than later..So it should be added to make it 5 homes due to the bis(2-chloroethyl)ether at 14 ug/L.

My main concern with the [Ex. 6 - Personal Privacy] home is the methane levels and I have calls into DEP to see if they know where this residence is located. Harrisburg and Meadville offices didn't recognize the name from their data bases so one of the guys from Williamsport who does more field work in that area is checking. Hopefully we'll track him down, otherwise we'll have to call one of the others in [Ex. 6 - Personal Privacy] family to see...

Thanks for your quick review!

Karen D. Johnson, Chief  
Ground Water & Enforcement Branch

**From:** Dawn Ioven/R3/USEPA/US  
**To:** KarenD Johnson/R3/USEPA/US  
**Cc:** Ann DiDonato/R3/USEPA/US@EPA, Dennis Carney/R3/USEPA/US@EPA, Eric Johnson/R3/USEPA/US@EPA, Jon Capacasa/R3/USEPA/US@EPA, Richard Fetzer/R3/USEPA/US@EPA, Robert Helverson/R3/USEPA/US@EPA, Victoria Binetti/R3/USEPA/US@EPA  
**Date:** 01/13/2012 01:28 PM  
**Subject:** Re: New data, new names in the response to the 104 data from Cabot

Hi, Karen. I reviewed the data summarized in your e-mail below. Most noteworthy, the [Ex. 6 - Personal Privacy] sample contained bis(2-chloroethyl)ether at 14 ug/L. This compound is a very potent carcinogen, with a risk-based trigger of 1.2 ug/L (set at an excess cancer risk of 1E-04). At the concentration reported in the [Ex. 6 - Personal Privacy] well (14 ug/L), the excess cancer risk associated with long-term exposure to this water is 1E-03, [Ex. 5 - Deliberative] (Note that this well also contained several trihalomethane products, which are often associated with the disinfection process for public water supplies. Not sure of their origin in this well and, to my knowledge, we haven't seen these compounds in other private wells in the area. At the levels detected, there's no real significance in terms of unacceptable risk, but I just thought I'd point out this finding.)

As an aside, lithium was detected at up to 380 ug/L in the [Ex. 6 - Personal Privacy] well. Based on a provisional non-cancer toxicity value for lithium, drinking water from this well would generate a Hazard Quotient greater than 10; [Ex. 5 - Deliberative]

However, like 2-methoxyethanol, at this point, we need to be careful about risk-based decisions for compounds with provisional tox data. (They lack the extremely rigorous peer-review that non-provisional values undergo.) When data gaps are filled in Dimock and HQ weighs-in on supporting these provisional values, then we could re-evaluate.

That's all I saw of significance. If you have any questions, please let me know. You can call me at home, if you'd like [Ex. 6 - Personal Privacy] Thanks.

Dawn

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Dawn A. Ioven, toxicologist  
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Philadelphia, PA 19103  
215.814.3320

#### **New data, new names in the response to the 104 data from Cabot**

**Karen D  
Johnson**

to: Richard Fetzer, Ann DiDonato, Dawn Ioven, Eric Johnson,  
Dennis Carney

01/13/2012 11:06  
AM

Cc: Robert Helverson, Jon Capacasa, Victoria Binetti

Going through the new data submitted and I found several additional chemicals identified and locations from the Test America data just received from well water samples-

Several new names with contaminant levels that may be of concern:

Ex. 6 - Personal Privacy

address given P.O. 39 Dimock- new name not part of DEP order

Methane 34.50 mg/l 9/23/10

Methane 60.40 mg/l 7/22/11

Lithium 182.42 ug/l in 9/10

Lithium 380 ug/l in 7/11

Ex. 6 - Personal Privacy

Chlorodibromomethane 3.8 ug/l

Chloroform 7.8 ug/l

propane 13 ug/l

Bis (2-chloroethyl)ether 14 ug/l

Tentatively identified compounds:

1,1-dimethyl-3-chloropropanol 68.3 ug/l

2,3-dichloro-2-methyl-Butane 54.6 ug/l

U 234 1.64 pCi/l

U 238 0.62 (J)

barium 720 ug/l

Mn 153 ug/l

Total phenols 0.1 mg/l

Total Organic Carbon 1.8 mg/l

six other unknown compounds

Ex. 6 - Personal Privacy

AL- 71.6 ug/l

Barium 150 ug/l

Bromodichloromethane 3.8 ug/l

Chlorodibromomethane 5.7 ug/l

### Ex. 6 - Personal Privacy

Al- 301 all ug/l

Arsenic 3.1

Barium 290

Pb 11.9

Li- 13.9

Mn 1360 ug/l

Ex. 6 - Personal Privacy

As 2.7 ug/l

Ba 95.3 ug/l

Mn 203 ug/l

Bis (2-ethylhexyl)phthalate 3.2 ug/l

tributyl phosphate 8.95 ug/l - tentatively identified compound

**Ex. 6 - Personal Privacy**

Al- 124 ug/l  
Ba 142 ug/l

**Ex. 6 - Personal Privacy**

BA- 230 ug/l  
Mn 64.6 ug/l

**Ex. 6 - Personal Privacy**

Ba 230 ug/l  
Mn 118 ug/l

**Ex. 6 - Personal Privacy**

unknown location not part of DEP order and no address

High in indicators like Fe, Na  
Al 9.6 ug/l  
Ba- 234 ug/l  
Li- 30.9  
Mn 8.8 ug/l  
Uranium 234 3.14 pCi/L  
Uranium 238 1.58  
Barium 234 ug/l

**Ex. 6 - Personal Privacy**

Ba 240 ug/l  
Li- 31.7 ug/l  
Uranium 234- 3.29 pCi/L  
Uranium 238 1.28 pCi/L

**Ex. 6 - Personal Privacy**

not one of the PADEP Order homes, but lives on Carter road- previously determined by DEP  
not to be affected

First show of effect with higher Fe, Mg and Na  
also Uranium 234 1.9 pCi/l  
uranium 238 0.93 (J)

**Ex. 6 - Personal Privacy**

Uranium 234 2.62  
Uranium 238 1.23 pCi/l

**Ex. 6 - Personal Privacy**

U234= 2.28 pCi/l  
U238= 1.13

**Ex. 6 - Personal Privacy**

U234= 1.2 pCi/L  
U238= 0.78 (J)  
Karen D. Johnson, Chief  
Ground Water & Enforcement Branch